

A3  
Sub C4  
17.(Amended) The system of claim 16, further comprising a traffic manager in communication with the manager, the traffic manager for directing web page requests to the web server.

18.(Amended) The system of claim 16, wherein the content distributor comprises:  
(a) an identification module for identifying changes in the master source file set;  
(b) a modification list for storing identified changes to the master source file set;  
(c) a transmitter for transmitting the modification list to the agent, the agent having access to a destination file system; and  
(d) a receiver for receiving a response indicating that the identified changes are installed.

Sub C5  
A4  
20.(Amended) A content distributor, comprising:  
(a) an identification module for identifying changes in a master source file set;  
(b) a modification list for storing the identified changes to the master source file set;  
(c) a transmitter for transmitting the modification list to an agent having access to a destination file system;  
(d) a transmitter for transmitting the a copy of a changed file of the master source file set to a web cache server; and  
(e) a receiver for receiving a response indicating that the web cache server received the copy of the changed file of the master source file set.

### REMARKS

#### Extension of Time to Respond

Applicants request and petition for a one month extension of time under 37 CFR 1.136(a) to file a response to the Office Action. A check for the extension fee is enclosed. If any other extension period or fee is required to have this Amendment and Response entered and considered, please consider this a conditional petition for the proper extension and authorization to charge our Deposit Account No. 20-0531.

### Claim Cancellations, Additions, and Status

Claims 1-20 were pending in this application. Applicants hereby cancel claims 11 and 19, without prejudice to their right to pursue the subject matter of any of these claims in this or a related application. Upon entry of this Amendment and Response, there are 18 claims pending, claims 1-10, 12-18, and 20. Claims 1, 12, 15, 16, and 20 are independent claims, and claims 2-10, 13, 14, 17, and 18 are dependent claims.

### Claim Rejections

Claims 1-20 are rejected under 35 U.S.C. § 102(b) over United States Patent No. 5,812,793 to *Shakib et al.* ("Shakib"). Claims 8-11 are rejected under 35 U.S.C. § 112, first paragraph. Applicants respectfully traverse these rejections.

### Claim Rejections Under 35 U.S.C. § 112, First Paragraph

Applicants hereby amend claims 8-10 to address the Examiner's concerns. Applicants herein cancels claim 11, rendering the rejection of claim 11 moot. Applicants submit that the originally-filed application contains enabling disclosure for the currently-pending claims and for the originally-submitted claims at, for example, page 26, lines 2-9 and in FIG. 12. Applicants respectfully request reconsideration and withdrawal of the rejections of claims 8-10.

### Shakib

Shakib discloses the use of one-way, unacknowledged communication messages between systems in a computer network to transfer locally modified data to other systems having a copy of the data. See Abstract. Shakib describes the use of the messages at column 4, lines 23-38, as follows:

In a store and forward replication process, each server keeps track of locally made changes to a particular copy of a replication data set (sometimes referred to as a "replica") which contains one or more data objects. Each server periodically broadcasts the new locally made changes (e.g., creation of new data, modification of existing data, or deletion of existing data since the last replication interval) to all other servers with a copy of the same replication data set. The group of other servers also having copies of the data set is kept on a "replica list." The changes are preferably broadcast in the form of an updated copy of the changed data objects. This allows each server to update the local replica as changes are

received by replacing the older versions of the data objects with the newer versions of the data objects.

The above-described messages are communicated by physical network connections capable of delivering one-way, unacknowledged communications message. See col. 7, lines 35-36. As defined in Shakib, one-way, unacknowledged communication means that the store and forward replication process delivers a message and does not receive feedback as to the success of the transfer. See column 7, lines 37-40. According to Shakib, this feature provides a substantial benefit over other replication systems and methods. See column 7, lines 44-46.

#### Claim Rejections Under 35 U.S.C. § 102(b)

Applicants' independent claims 1, 12, 15, 16, and 20 recite, in part, "... receiving a response ..." indicating that the changes to the master source file set have been received by or installed on the destination file system. Support for this is found in Applicants' originally-filed specification at, for example, page 19, lines 28-29, which states that "[w]hen the update is successful, the agents inform the content distributor that they succeeded in updating the files."

Shakib fails to teach or suggest "receiving a response" as now claimed. In contrast, Shakib specifically states that after delivery of the locally made changes, the node does not receive feedback as to the success of the transfer. In the words of Shakib, the transfer of the changes is "one way, unacknowledged." Therefore, Shakib fails to teach or suggest amended independent claims 1, 12, 15, 16, and 20, and the claims which depend directly or indirectly from them.

Amended claims 1, 12, 15 and 20 recite, in part, "identifying changes in a master source file set ...." Amended claim 16 recites, in part, "... providing notification of changes to a master source file set ...." Support for the term "master" can be found in Applicants' originally-filed specification, for example, at page 12, lines 20-21, which states that the "source files are the 'master' copy of the content for the web servers."

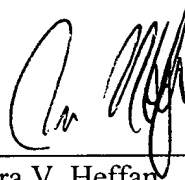
In contrast to Shakib, each of Applicants' independent claims now recites the use of a "master" source file set. Shakib does not use a master source file set. Instead, Shakib tracks local changes to a replication data set residing on a server. Each sever periodically broadcasts the local changes to each other server having the same replication data set. Therefore, no master

source file exists in Shakib. As such, Shakib fails to teach or suggest amended independent claims 1, 12, 15, 16, and 20, and the claims which depend directly or indirectly from them.

Conclusion

In view of the foregoing, Applicants respectfully request reconsideration and withdrawal of all rejections, and allowance of all claims (i.e., 1-10, 12-18, and 20), in due course. If the Examiner believes that a telephone conference with Applicants' attorney would be helpful, the Examiner is invited to contact the Applicants' attorney at the number below.

Respectfully submitted,



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MARKED-UP COPY OF AMENDMENTS TO THE CLAIMS

1.(Amended) A method for notifying a computer of change[d files]s to a master source file set, comprising the steps of:

- (a) identifying changes in [a]the master source file set;
- (b) storing the identified changes in a modification list comprising uniform resource locators specifying [the]a changed file[s]of the master source file set; [and]
- (c) transmitting the modification list to [a]the computer, thereby notifying the computer that the master source file set has changed; and[.]
- (d) receiving a response from the computer indicating that the identified changes are installed.

2.(Amended) The method of claim 1 wherein [step (c) comprises transmitting the modification list to]the computer is a web cache server.

3.(Amended) The method of claim 1 wherein the identifying step comprises the steps of: inspecting a [set of files]current version of the master source file set; and comparing the [set of files]current master source file set to a[n earlier recorded] previous version of the master source file set.

4.(Amended) The method of claim 3 wherein the comparing step comprises comparing a file attribute of a file of the master source file set to [the]a file attribute of a file of the [earlier-recorded]previous version of the master source file set.

5.(Amended) The method of claim 4 wherein the file attribute comprises at least one attribute chosen from the [set]group consisting of file size, file permissions, file ownership, modification time, and a hash of the file.

6.(Amended) The method of claim 1 wherein the identifying step comprises the steps of: installing a device driver to perform file operations, and monitor changes to the master source file set; and recording, by the device driver, changes to the master source file set.

7.(Amended) The method of claim 1 wherein the identifying step comprises:  
receiving a manifest describing changes to the master source file set.

8.(Amended) The method of claim 1, further comprising, before the identifying step, the step of calling a script of user configurable instructions by calling an operating system function.

9.(Amended) The method of claim 1, further comprising, before the transmitting step, the step of calling a script of user configurable instructions by calling an operating system function.

10.(Amended) The method of claim 1, further comprising, after the transmitting step, the step of calling a script of user configurable instructions by calling an operating system function.

12.(Amended) A method for replicating changes in a master source file set on a destination file system and for notifying a computer of the changes, comprising the steps of:

- (a) identifying changes in [a] the master source file set;
- (b) storing the changes in a first modification list;
- (c) transmitting the first modification list to an agent having access to [a]the destination file system;
- (d) storing the changes in a second modification list comprising uniform resource locators specifying [the]a changed file[s]of the master source file set; [and]
- (e) transmitting the second modification list to [a]the computer, thereby notifying the computer that the master source file set has changed[.]; and
- (f) receiving a response indicating that the identified changes are installed.

15.(Amended) A method for replicating changes in a master source file set on a destination file system and for notifying a computer of the changes, comprising the steps of:

- (a) identifying changes in [a]the master source file set;
- (b) storing the changes in a modification list comprising uniform resource locators specifying [the]a changed file[s] of the master source file list;
- (c) transmitting the modification list to an agent having access to [a]the destination file system; [and]

(d) transmitting the modification list to [a]the computer, thereby notifying the computer the master source file set has changed[.]; and

(e) receiving a response indicating the identified changes are installed.

16.(Amended) A web service system, comprising:  
a manager for managing the web service system;  
a host comprising a web server for receiving web page requests and an agent in communication with the manager and the web server;  
a web cache; and  
a content distributor in communication with the web cache, the host, and the manger, the content distributor [for] providing [content] notification of changes to a master source file set to the host and receiving a response indicating that the identified changes are installed.

17.(Amended) The system of claim 16, further comprising a traffic manager in communication with the manager, the traffic manager for directing web page requests to the web server.

18.(Amended) The system of claim 16, wherein the content distributor comprises:  
(a) an identification module for identifying changes in [a]the master source file set;  
(b) a modification list for storing identified changes to the master source file set; [and]  
(c) a transmitter for transmitting the modification list to [an]the agent, the agent having access to a destination file system[.]; and  
(d) a receiver for receiving a response indicating that the identified changes are installed.

20.(Amended) A content distributor, comprising:  
(a) an identification module for identifying changes in a master source file set;  
(b) a modification list for storing the identified changes to the master source file set;  
(c) a transmitter for transmitting the modification list to an agent having access to a destination file system; [and]  
(d) a transmitter for transmitting the a copy of a changed file[s]of the master source file set to a web cache server[.]; and

(e) a receiver for receiving a response indicating that the web cache server received the copy of the changed file of the master source file set.